

- 13 -

Claims

1. A non-thermal plasma reactor for the treatment of a gaseous medium comprising
- 5 a plurality of double-sided filter elements in a stack, the elements being connectable alternately to high voltage and earth, and
- 10 provided with a dielectric barrier between successive filter elements
- wherein the gaseous medium is constrained to flow into the filter elements.
- 15 2. A reactor according to claim 1 wherein the filter elements are annular.
3. A reactor according to claim 1 or 2 wherein the
- 20 filter elements are hollow.
4. A vehicle, ship or power generation unit comprising a reactor according to any one of claims 1 to 3.
- 25 5. A method for treating a gaseous medium to remove particulates comprising passing the gaseous medium through a reactor according to any one of claims 1 to 3 and generating a plasma in the reactor intermittently or continuously.
- 30 6. Use of a reactor according to any one of claims 1 to 3 for the removal of particulates from a gaseous medium.